Outcome: Fish Habitat

Goal: Sustainable Fisheries

Outcome: Continually improve effectiveness of fish habitat conservation and restoration efforts by identifying and characterizing critical spawning, nursery and forage areas within the Bay and tributaries for important fish and shellfish, and use existing and new tools to integrate information and conduct assessments to inform restoration and conservation efforts.

Long term Target: Improve spatial data and characterization of fish habitat and integrate information into management, strategic planning and decision-making.

2 year Target: Identify the most critical habitat areas and/or habitat requirements for a few priority species and identify shared priorities and collaborative actions across jurisdictions and partners.

Key Action** Description of work/project. Define each	Performance Target(s) Identify incremental steps to achieve Key	Participating Entity Identify responsible partner for each	Geographic Location	Timeline Identify completion date	Estimated Project Cost Best estimate of total project	Available funding by	Factors Influencing and/or Gap Identify related factor or gap in Management Strateg
major action step on its own row. Identify specific program that will be used to achieve action.	Action.	step.		(month & year) for each step)	cost (needed)	Partner	related juctor or gap in Management Stratet
Continue to improve our understanding of specific habitat stressors to promote sound management strategies that can conserve and restore habitat for productive fisheries.	• .	Delaware, Pennsylvania, Virginia, Maryland and DC; Fish Habitat Action Team	n/a	Jun-16	n/a - staff	n/a	
	Work with TetraTech to compile and synthesize existing reports and data to develop summaries of key stressors and fisheries response that can be used by resource managers.	TetraTech, Fish Habitat Action Team	n/a				
	Evaluate living resource responses to dynamic ecosystem conditions of shoreline modifications, habitat restoration, climate forcing, and water quality.	Sustainable Fisheries GIT, Vital Habitats GIT	n/a		n/a - staff		
Totals						n/a	
Nork with Chesapeake Bay Program (CBP) partners and Goal	Work with the healthy watershed GIT to coordinate development of metrics to identify healthy habitat for fisheries.	Fish Habitat Action Team	n/a	Sep-16			
Implementation Teams (GITs) to identify threats and understand how those threats are being addressed.	Work with Water Quality GIT to identify and prioritize specific water quality and toxics threats to fisheries and their habitats.	Fish Habitat Action Team	n/a	Dec-16			
Totals							
Develop thresholds and/or metrics for primary stressors and threats to tharacterize what aspects of habitat need to be maintained to support fish habitat functions.	Build on significant advances by Maryland DNR on how land use change is impacting tidal fish communities by developing and applying thresholds of impervious cover.	MD DNR, Fish Habitat Action Team					

Key Action**	Performance Target(s)	Participating Entity	Geographic Location	Timeline	Estimated Project Cost	Available funding by	Factors Influencing and/or Gap Identify
	Review existing (ACFHP, ASMFC, MD DNR) and develop matrices that target species by life stage. This information will be used to map the natural distribution of species in order to rank habitat use based on frequency distributions of occurrence.	STAR, Sustainable Fisheries GIT, Fish Habitat Action Team					
Incorporate fish utilization ormation into a threat matrix	Identification of spawning, nursery, and overwintering habitat that supports Largemouth bass, American shad, and Atlantic sturgeon I the Nanticoke River drainage is a priority for Delaware. Existing data could be used to identify these areas in general but additional research is needed to further refine specific habitat needs and determine						

Total

Management Approach 3: Map and target high-value fish habitat for improved conservation and restoration. Partners will work with the science and management community to develop spatial tools for priority habitats and species to inform management decisions. Key Action** Performance Target(s) **Participating Entity Geographic Location** Timeline Convene a workshop (STAC) to develop a strategy and prioritized recommendations for CBP to best utilize existing spatial habitat and fish data to support the fish habitat conservation and restoration. Fish Habitat Action Team Maryland has developed a mapping approach to identify high priority Overlay spatial data on fish species habitat for anadromous spawning areas habitat dependence (by life stage) in Maryland and will continue to with high-value habitat. develop similar maps for all life stages of our target species. Fish Habitat Action Team Complete development and testing of the Mid-Atlantic Telemetry Observing System (MATOS) Beta version and demonstrate successful operation. Total Identify species and geographic areas (ex. Non-tidal areas) that need spatial Identify and where possible, fill data coverage and develop strategies to spatial data gaps for specific species and/or tributary areas that lack Convert existing survey data to spatial sufficient data coverage. datasets where needed.

Total

Management Approach 4: Communic	cate importance of fish habitat to the ger	neral public and local community le	aders by engaging in a con	versation about the trade	offs associated with compet	ing uses of land and w	rater.
Key Action** Description of work/project. Define each	Performance Target(s) Identify incremental steps to achieve Key	Participating Entity Identify responsible partner for each	Geographic Location	Timeline Identify completion date	Estimated Project Cost Best estimate of total project	Available funding by Partner	Factors Influencing and/or Gap Identify related factor or gap in Management Strategy
major action step on its own row. Identify specific program that will be used to achieve action.	Action.	step.		(month & year) for each step)	cost (needed)	Partner	related Jactor or gap in Management Strategy
	Discuss species habitat requirements with Water Quality, Watersheds, Habitat, and Stewardship GITs.	Stewardship GIT, Partnering and Leadership GIT, Sustainable Fisheries GIT					
	Use species of local importance to tailor communications to specific areas.						
	Support Maryland's Fish Habitat Workgroup focused on sustaining and restoring viable fish habitats in						
	Maryland in developing strategies to connect with rural communities to increase their commitment to maintain the rural character of their watersheds.						
habitat needs with CBP partners and	Delaware will collaborate with state						
	planning staff and environmental review coordinators that already have a						
	relationship with local jurisdictions and stakeholder groups (i.e. farmers, development consultants, the						
	Department of Transportation). These staff can also aid with protection of habitat through the regulatory process -						
	including use of the permitting process to protect habitat and by considering						
	new ordinances and initiative that can be incorporated into local comprehensive land-use plans and						
	master plans.						

Key Action**	Performance Target(s)	Participating Entity	Geographic Location	Timeline	Estimated Project Cost	Available funding by	Factors Influencing and/or Gap Identify
Description of work/project. Define each	Identify incremental steps to achieve Key	Identify responsible partner for each		Identify completion date	Best estimate of total project	Partner	related factor or gap in Management Strategy
major action step on its own row.	Action.	step.		(month & year) for each	cost (needed)		
Identify specific program that will be				step)			
used to achieve action.							
	Initiate regular engagement with						
Engage local planners and	regional partnerships also working on						

Management Approach 5: Evaluate ways to enhance fish habitat protection by reviewing examples from other regions (e.g., the Puget Sound Partnership) and actively engaging with the Atlantic Coast Fish Habitat Partnership.

Engage local planners and restoration practitioners to understand what elements of habitat need to be conserved to provide for ecosystem services.

egional partnerships also working on			
nabitat issues (i.e. NALCC).	Sustainable Fisheries GIT		
valuate the effectiveness/success of			
other methods and efforts to achieve	STAR, Fish Habitat Action Team,		
ealthy and productive fish habitat	organizations from other regions		1

	Total						
Work with partners who are implementing fish habitat conservation projects.	Initiate regular engagement with regional partnerships also working on habitat issues (i.e. NALCC). Work with ACFHP to ensure Chesapeake Bay habitats are included in their efforts.	STAR, Fish Habitat Action Team, organizations from other regions					
	Engage with TNC to understand their						
	projects for anadromous fish on the						
	East Coast and salmon efforts on the						
	West Coast to identify potential						
	application to the Chesapeake Bay.	TNC, Sustainable Fisheries GIT					
	Work with the National Fish Habitat						
complete a review and analysis of	Partnership Science and Data						
	inland assessment may be used to characterize the primary stressors to						
	freshwater habitats in the region.						
	Contact Midwest organizations to learn						
	about tools developed for freshwater						
	mussels in that region.						
Complete a review of policies and							
cultural views that may limit							
promotion of habitat conservation.	Total						